



ALASKA LUMBER & PULP CO., INC.

Sales Office: P.O. BOX 1080 • SITKA, ALASKA • TELEPHONE 747-8280

November 20, 1962

Mr. Stanley D. Swanson, Director
Division of Commercial Fisheries
Alaska Department of Fish and Game
Subport Building
Juneau, Alaska

Dear Stan:

This is to acknowledge your letter of November 15, 1962. We have run into a very peculiar phenomenon in regards to the turbidity strata in Blue Lake.

After a heavy rain and runoff into the lake the resulting strata of high turbidity water is not consistent in its location. Dependent on the water temperature it goes either of two ways; on the surface (in the top 20 feet) or along the very bottom of the lake until the topography of the lake bottom and the general down lake current forces the turbid water up to the depth of our outfall (120 ft. deep). Generally it is safe to assume the course along the bottom. There have been times at the mouths of the feeder streams when the water is perfectly clear (turbidity less than 0.5 ppm) down to 1 foot from the bottom where immediately the turbidity is so high as to be unreadable by usual methods. The data we have is significant only in that it indicates two distinct courses for the highly turbid water and this is governed by the relative density of each respective water which in turn is mainly governed by the air temperatures.

Well enough of that Stan, I think the more that Blue Lake is studied the more interesting it becomes.

In regards to your question on the possibility of an occasional analysis of Redoubt Lake etc. The answer is certainly. I would advise you to have those picking up the sample contact us for the container. We would need about 5 gallons of sample and we have special glass carboys for this purpose.



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Mr. Stanley D. Swanson

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November 20, 1962

I hope to see you the next time you are in Sitka.

Have a nice Thanksgiving.

Sincerely

ALASKA LUMBER & PULP CO., INC.

Bix Bonney
Laboratory Supervisor

BB:hv

